PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PU030282-US-PCT

PADEMINION the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 10/575676 Filing Date 10/12/2004 INFORMATION DISCLOSURE First Named Inventor BOYCE, JILL MACDONA STATEMENT BY APPLICANT Art Unit 2624 (Use as many sheets as necessary) **Examiner Name** BHATNAGAR, ANAND P.

**Attorney Docket Number** 

of |4

<sup>US-</sup> US5767860

Sheet

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
_		<sup>US-</sup> US20020034337	03/21/2002	SHEKTER	
		<sup>US-</sup> US20020154140	10/24/2002	TAZAKI	
		<sup>US-</sup> US20030218610	11/27/2003	MECH ET AL.	
		<sup>US-</sup> US4897775	01/30/1990	KAASSENS	
		<sup>US-</sup> US4935816	06/19/1990	FABER ROBERT A.	
		<sup>US-</sup> US5028280	07/02/1991	IHARA ET AL.	
		<sup>US-</sup> US5140414	08/18/1992	MOWRY	
		<sup>US-</sup> US5262248	11/16/1993	IHARA ET AL.	
		<sup>US-</sup> US5335013	08/02/1994	FABER	
		<sup>US-</sup> US5374954	12/20/1994	MOWRY .	
		<sup>US-</sup> US5406326	04/11/1995	MOWRY	
		<sup>US-</sup> US5457491	10/10/1995	MOWRY	
		<sup>US-</sup> US5471572	11/28/1995	BUCHNER ET AL.	
		<sup>US-</sup> US5475425	12/12/1995	PRZYBORSKI ET AL.	
		<sup>US-</sup> US5629769	05/13/1997	COOKINGHAM ET AL.	
		<sup>US-</sup> US5687011	11/11/1997	MOWRY	
		<sup>US-</sup> US5706361	01/06/1998	KENT ET AL.	
		<sup>US-</sup> US5709972	01/20/1998	COOKINGHAM ET AL.	

			IGN PATENT DOCU	JMENTS		
	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>€</sup>
		EP - EP1175091	01/23/2002	PRZYBORSKI ET A		
		EP - EP1215624	06/19/2002	EASTMAN KODAK C		
		EP - EP0622000	10/15/1992	FABER		
<u> </u>		WO - WO0146992	06/28/2001	<b>BROWN UNIVERSIT</b>		
		WO - WO0177871	10/18/2001	DEMOGRAFX		
		WO - WO2004104931	12/02/2004	THOMSON LICENSI		

ZIMMER ET AL.

06/16/1998

[ Examiner	Date	
		,
Signature	Considered	· · · · · · · · · · · · · · · · · · ·

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 2

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of |4

Cor	mplete if Known	
Application Number	10/575676	
Filing Date	10/12/2004	
First Named Inventor	BOYCE, JILL MACDONA	
Art Unit	2624	
Examiner Name	BHATNAGAR, ANAND P.	
Attorney Docket Number	PU030282-US-PCT	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Number-Kind Code <sup>2 (ff known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> US5805782	09/08/1998	FORAN	
		<sup>US-</sup> US5817447	10/06/1998	YIP	
		<sup>US-</sup> US5831673	11/03/1998	PRZYBORSKI ET AL.	
		<sup>US-</sup> US6233647	05/15/2001	BENTZ ET AL.	
		<sup>US-</sup> US6559849	05/06/2003	ANDERSON ET AL.	
		<sup>US-</sup> US6650327	11/18/2003	AIREY ET AL.	
		US-			
	-	US-			
		US-	-		

			<b>GN PATENT DOCU</b>	JMENTS		
Examiner Cite Initials* No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		WO - WO9314591	07/22/1993	FABER		
		WO - WO9520292	07/27/1995	PRZYBORSKI ET A		
		EP - EP0373615	06/20/1990	MATSUSHITA ELEC		
		EP - EP0575006	10/27/1999	EASTMAN KODAK C		
		WO - WO2004105250	12/02/2004	THOMSON LICENSI		

Examiner	Date	
Signature	Considered	
Oignature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Index the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

				Complete if Known		
Substitu	substitute for form 1449/PTO			Application Number	10/575676	
INF	ORMATION	I DIS	CLOSURE	Filing Date	10/12/2004	
STA	STATEMENT BY APPLICANT			First Named Inventor	BOYCE, JILL MACDONALD (responsible	
				Art Unit	2624	
	(Use as many sheets as necessary)			Examiner Name	BHATNAGAR, ANAND P.	
Sheet	3	of	4	Attorney Docket Number	PU030282-US-PCT	

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		YAN ET AL., "Efficient Video Coding with Hybrid Spatial and Fine-Grain SNR Scalabilities", Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671, 2002.	
		YAN ET AL., "Signal-Dependent Film Grain Noise Removal and Generation Based on Higher-Order Statistics", Ontario, Canada, 1997.	
		VAN DER SCHAAR, "Fine-Granualarity-Scalability for Wireless Video and Scalable Storage", Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671, 2002.	
		PRADES-NEBOT, "Rate control for Fully Fine-Grained Scalable Video Coders", Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671, 2002.	
		ILLINGWORTH ET AL., "Vision, Image and Signal Processing", IEE Proceedings, Vol. 147, No. 3, United Kingdom, June 2000.	
		AL-SHAYKH ET AL, "Lossy Compression of Images Corrupted by Film Grain Noise", IEEE, Atlanta, GA, 1996.	
		MCLEAN ET AL., "Telecine Noise Reduction", The Institution of Electrical Engineers, London, UK, 16 January, 2001, pages 1-6.	
		PENG ET AL., "Adaptive Frequency Weighting for Fine-Granualarity-Scalability", Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671, 2002.	
		OKTEM ET AL., "Transform Domain Algorithm for Reducing Effect of Film-Grain Noise in Image Compression", Electronics Letters, Vol. 35, No. 21, 14 October 1999.	
		AL-SHAYKH ET AL., "Restoration of Lossy Compressed Noisy Images", IEEE Transactions on Image Processing, Vol. 8, No. 10, October 1999.	

		· · · · · · · · · · · · · · · · · · ·
Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449	/PTO			Complete if Known
Substitute for form 1440			Application Number	10/575676
INFORMAT	ION DIS	CLOSURE	Filing Date	10/12/2004
STATEMEN	STATEMENT BY APPLICANT		First Named Inventor	BOYCE, JILL MACDONALD (responsible
(Uso se ma	nny sheets as n	ocassan/l	Art Unit	2624
(USE as IIIa	my sneets as n	ecessary)	Examiner Name	BHATNAGAR, ANAND P.
Sheet 4	of	4	Attorney Docket Number	PU030282-US-PCT

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SHAHNAZ ET AL., "Image Compression in Signal-Dependent Noise", Applied Optics, Vol. 38, No. 26, 10 September 1999.	
		ZHAO ET AL., "Constant Quality Rate Control for Streaming MPEG-4 FGS Video, IEEE, 2002.	
<del></del>		AL-SHAYKH, ET AL., "Lossy Compression of Noisy Images", IEEE Transactions on Image Processing, Vol. 7, No. 12, December 1998.	
		BRIGHTWELL ET AL., "Automated Correction of Film Unsteadiness, Dirt and Grain", International Broadcasting Convention, 16-20 September 1994.	
		FISCHER ET AL., "Image Sharpening Using Permutation Weighted Medians", National Science Foundation.	
		CAMPISI ET AL., "Signal-Dependent Film Grain Noise Generation using Homomorphic Adaptive Filtering", IEEE ProcVis. Image Signal Processing, Vol. 147, No. 3, June 2000.	
		CHAVEL ET AL., "Film Grain Noise in Partially Coherent Imaging", Optical Engineering, Vol. 19, No. 3, May/June 1980.	

Examiner	 Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.